# 315392

**12526**

**3 Hours / 70 Marks** Seat No. | | | | | | | | |

*Instructions* – (1) All Questions are *Compulsory.*

(2) Answer each next main Question on a new page.

(3) Illustrate your answers with neat sketches wherever necessary.

(4) Assume suitable data, if necessary.

(5) Use of Non-programmable Electronic Pocket Calculator is permissible.

(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Attempt any FIVE of the following :** **10**

a) State the object of heat setting.

b) Define the term "pilling".

c) Define the term "soil".

d) State the objects of OBA finishing.

e) Enlist name of any two OBA.

f) Define the percentage expression with example.

g) Compare waterproof with water repellent finish.

P.T.O.

**Marks**

**2. Attempt any THREE of the following :** **12**

a) State the thermal behaviour of cotton, wool, silk and polyester fibre.

b) Describe the yarn factor affecting on pill formation.

c) State the type of soil with example.

d) Describe the foam properties with example.

**3. Attempt any THREE of the following :** **12**

a) Compare various stages of heat setting.

b) Describe the mechanism of pill formation.

c) Explain knife on roller method for foam finishing.

d) Describe the method to get waterproof finish on polyester fabric.

**4. Attempt any THREE of the following :** **12**

a) Describe the method to evaluate efficiency of heat setting.

b) Describe the factor affecting on soiling of textile.

c) Describe any two methods for stripping of OBA.

d) Explain the factor affecting on foam stability.

e) Formulate recipe for 10,000 m polyester fabric to get soft effect, if GLM = 250, expression = 60%.

**5. Attempt any TWO of the following :** **12**

a) Explain the mechanism of heat setting of synthetic fibre.

b) Discuss any two chemical methods to minimize pilling.

c) Explain the oily soil release mechanism for soil release finish.

**6. Attempt any TWO of the following :** **12**

a) Justify the statement "Temperature of heat setting of polyester is always 180°C - 220°C".

b) Explain the mechanism of OBA used in textile application.

c) Illustrate weight reduction of polyester with reaction.

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